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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/024,958	0/024,958 12/18/2001 N		Melisa Buie AMA/4213.P1/ETCH/METAL/JB 3439		
32588	7590 07/06/2004	EXAMINER		INER	
APPLIED MATERIALS, INC. 2881 SCOTT BLVD. M/S 2061 SANTA CLARA, CA 95050			CHEN, KIN CHAN  ART UNIT PAPER NUMBER		
			1765	1765	
			DATE MAILED: 07/06/2004	ļ.	

Please find below and/or attached an Office communication concerning this application or proceeding.

ř.	Application No.	Applicant(s)				
Advisory Action	10/024,958	BUIE ET AL.				
navicoly neadin	Examiner	Art Unit				
	Kin-Chan Chen	1765				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
THE REPLY FILED 17 June 2004 FAILS TO PLACE TH Therefore, further action by the applicant is required to a final rejection under 37 CFR 1.113 may <u>only</u> be either: (1 condition for allowance; (2) a timely filed Notice of Appea Examination (RCE) in compliance with 37 CFR 1.114.	void abandonment of this applice ) a timely filed amendment whi	cation. A proper reply to a ch places the application in				
PERIOD FOR RE	PLY [check either a) or b)]					
a) The period for reply expiresmonths from the mailing d b) The period for reply expires on: (1) the mailing date of this Advi event, however, will the statutory period for reply expire later that ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS I 706.07(f).  Extensions of time may be obtained under 37 CFR 1.136(a). The dat have been filed is the date for purposes of determining the period of extens 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened (b) above, if checked. Any reply received by the Office later than three more earned patent term adjustment. See 37 CFR 1.704(b).	sory Action, or (2) the date set forth in the an SIX MONTHS from the mailing date of FILED WITHIN TWO MONTHS OF THE e on which the petition under 37 CFR 1.1 sion and the corresponding amount of the statutory period for reply originally set in	f the final rejection.  E FINAL REJECTION. See MPEP  136(a) and the appropriate extension fee  tee. The appropriate extension fee under the final Office action; or (2) as set forth in				
1. A Notice of Appeal was filed on Appellant's 37 CFR 1.192(a), or any extension thereof (37 CFF	R 1.191(d)), to avoid dismissal of	period set forth in of the appeal.				
2. The proposed amendment(s) will not be entered be	ecause:					
<ul><li>(a) ☐ they raise new issues that would require further consideration and/or search (see NOTE below);</li></ul>						
(b) they raise the issue of new matter (see Note b	elow);					
(c) they are not deemed to place the application in issues for appeal; and/or	n better form for appeal by mat	erially reducing or simplifying the				
(d) they present additional claims without canceli NOTE:	ng a corresponding number of	finally rejected claims.				
3. Applicant's reply has overcome the following reject	tion(s):					
4. Newly proposed or amended claim(s) would canceling the non-allowable claim(s).	be allowable if submitted in a s	eparate, timely filed amendment				
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request for application in condition for allowance because: see	reconsideration has been consecuted sheet.	sidered but does NOT place the				
6. The affidavit or exhibit will NOT be considered bed raised by the Examiner in the final rejection.	ause it is not directed SOLELY	to issues which were newly				
7. For purposes of Appeal, the proposed amendment explanation of how the new or amended claims we	(s) a)∏ will not be entered or bould be rejected is provided belo	)□ will be entered and an ow or appended.				
The status of the claim(s) is (or will be) as follows:						
Claim(s) allowed:						
Claim(s) objected to:						
Claim(s) rejected:						
Claim(s) withdrawn from consideration:						
8.☐ The drawing correction filed on is a)☐ appr	roved or b) disapproved by	the Examiner.				
9. Note the attached Information Disclosure Statemer	nt(s)( PTO-1449) Paper No(s)					
10.⊠ Other: <u>references cited for evidences</u>		Kin-Chan Chen Primary Examiner Art Unit: 1765				

## Response to Request-for-reconsideration-after-final

1. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). As has been stated in the office action, it would have been obvious to one with ordinary skilled in the art to modify Kornblit by using carbon monoxide as taught by Meyer because each of which is taught by the prior art to be useful for the same purpose of etching chromium coated glass substrate.

"It is prima facie obvious to use two compositions (two methods) each of which is taught by the prior art to be useful for the same purpose." In re Kerkhoven 205 USPQ 1069 (CCPA 1980). In re Susi 169 USPQ 423, 426 (CCPA 1971). See also Ex parte Quadranti 25 USPQ 2d 1071 (BPAI 1992).

2. Applicant has argued the compositions (ratios of the etching gases), processing parameters (such as power and pressure) and carrier gas (e.g., helium). As has been stated in the office action, they are commonly determined by routine experiment. The process of conducting routine optimizations so as to produce an expected result is obvious to one of ordinary skill in the art. It is noted that applicant did not traverse the aforementioned conventionality ,which have been stated in the previous office action (October 20, 2003). However, The examiner would like

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to further provide some evidences (see Demmin et al. US 6,635,185, beginning at col. 7, line 15) to show the compositions (ratios of the etching gases), processing parameters (such as power and pressure) are well-known result-effective variables in the art of dry etching, which can be optimized, also see MPEP 2144.05. As to carrier gas, as stated in the office action, Meyer teaches using carrier gas (col. 3, line 11) such as argon. Therefore, it includes helium because argon and helium are notoriously well-known carrier gases in the art of dry etching, also see the further evidences, Takada et al. (US 4,350,563; col. 7, line 57), Tachi (US 4,406,733; col. 2, line 57).

In light of comments above, the obviousness rejections are maintained.

July 1, 2004

Kin-Chan Chen Primary examiner

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